

For Research Use Only

# FITC Plus Anti-Human CD31 (WM-59)

Catalog Number: FITC-65268



## Basic Information

<b>Catalog Number:</b> FITC-65268	<b>GenBank Accession Number:</b> BC022512	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100 tests, 5 µl/test	<b>GeneID (NCBI):</b> 5175	<b>CloneNo.:</b> WM-59
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000261371	<b>Recommended Dilutions:</b> FC: 5 µl per 10 <sup>6</sup> cells in 100 µl suspension
<b>Isotype:</b> IgG1, kappa	<b>Full Name:</b> platelet/endothelial cell adhesion molecule	<b>Excitation/Emission maxima wavelengths:</b> 495 nm / 524 nm
	<b>Calculated MW:</b> 83 kDa	

## Applications

<b>Tested Applications:</b> FC	<b>Positive Controls:</b> FC : human PBMCs,
<b>Species Specificity:</b> Human	

## Background Information

CD31, also known as PECAM1 (Platelet endothelial cell adhesion molecule), is a member of the immunoglobulin gene superfamily of cell adhesion molecules. CD31 is a transmembrane glycoprotein that is highly expressed on the surface of the endothelium, making up a large portion of its intracellular junctions. It is also present on the surface of hematopoietic cells and immune cells including platelets, monocytes, neutrophils, natural killer cells, megakaryocytes and some types of T-cell (PMID: 9011572). As well as its role in cell-cell adhesion, CD31 functions as a signaling receptor, and is involved in important physiological events such as nitric oxide production, regulation of T-cell immunity and tolerance, leukocyte transendothelial migration and inflammation and angiogenesis (PMID: 21183735; 20978210; 17872453; 20634489).

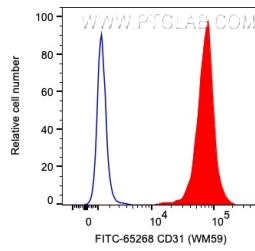
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

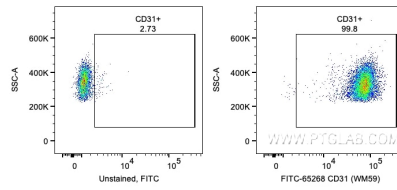
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## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface stained with 5 ul FITC Plus Anti-Human CD31 (FITC-65268, Clone: WM-59) (red) or unstained. Cells were not fixed. Monocytes were gated.



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